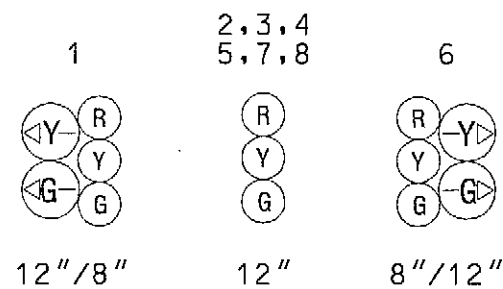
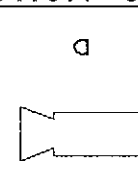


MD 648E IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION

EXISTING SIGNALS TO REMAIN



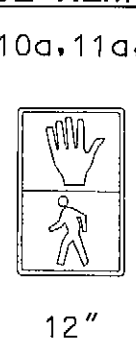
EXISTING VIDEO DETECTION CAMERA



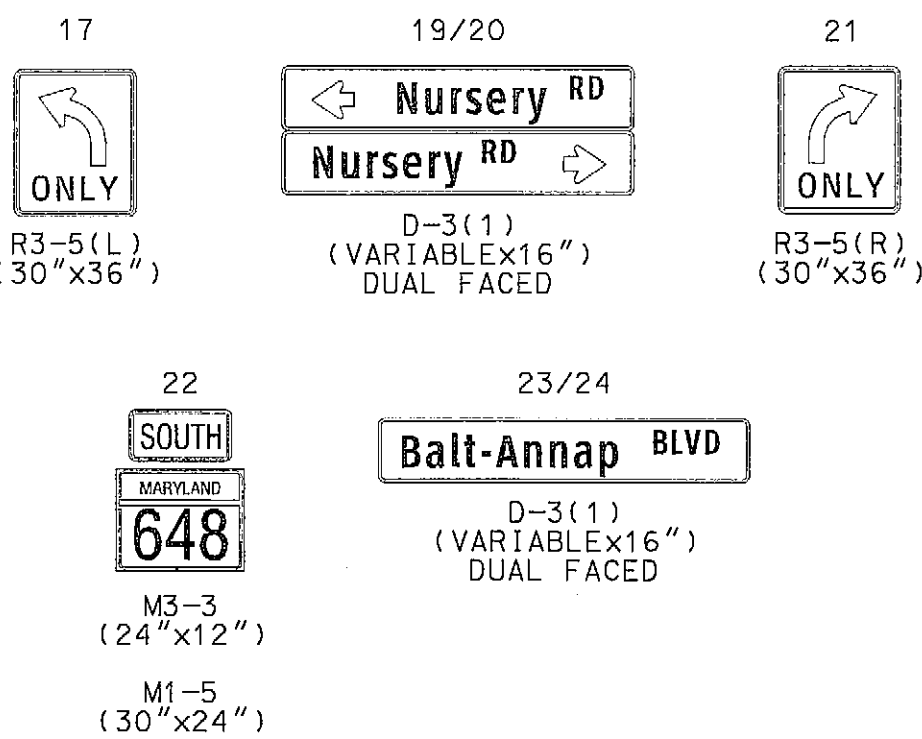
PROPOSED LED SIGNALS



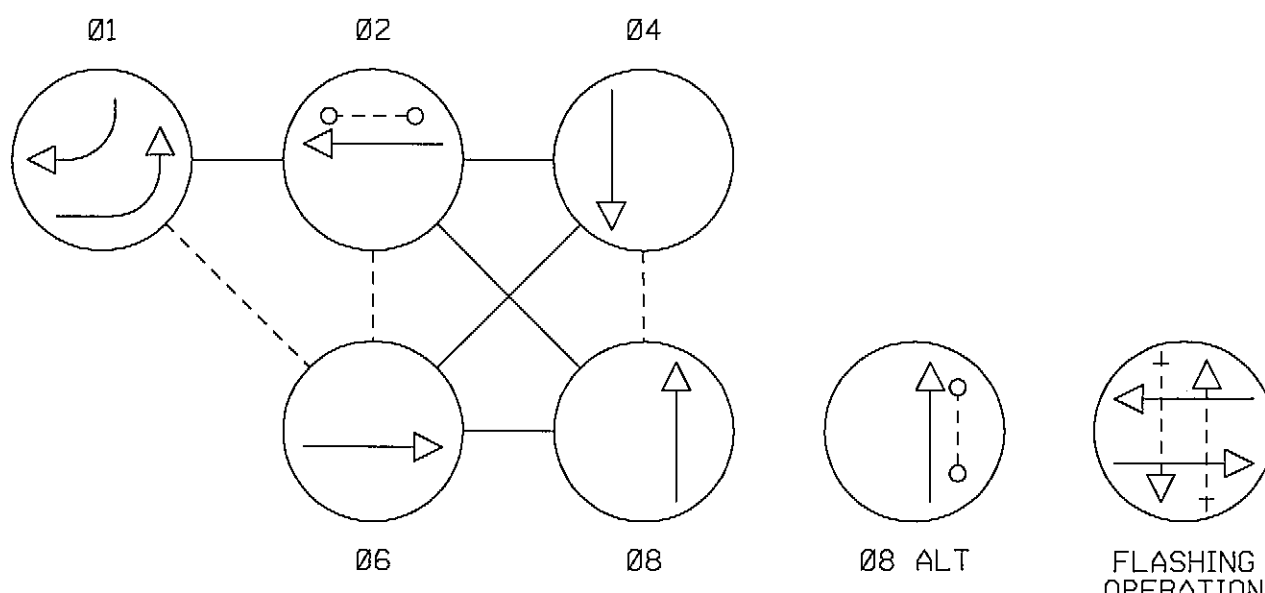
EXISTING SIGNALS TO BE REMOVED



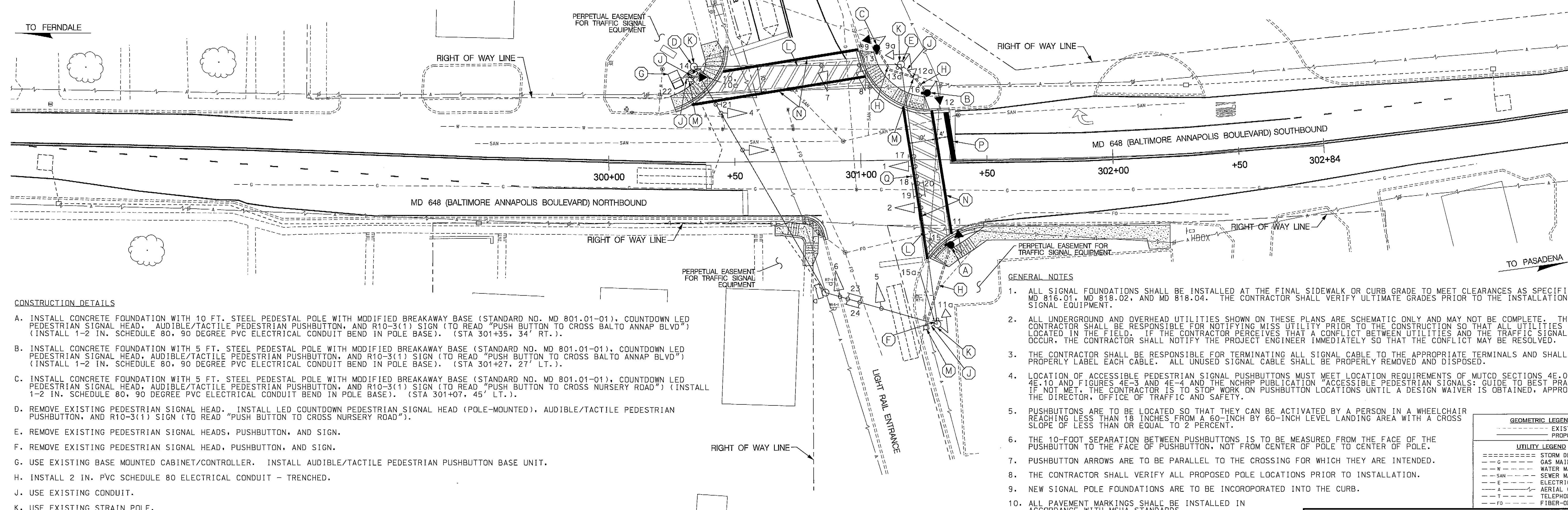
EXISTING SIGNALS TO REMAIN



NEMA PHASING



PHASING NOTES:
1. PHASES ASSOCIATED BY A SOLID LINE WILL NOT OPERATE CONCURRENTLY.
2. PHASES ASSOCIATED BY A DASHED LINE MAY OPERATE CONCURRENTLY.



CONSTRUCTION DETAILS

- INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), COUNTDOWN LED PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS BALTO ANNAP BLVD") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE). (STA 301+35, 34' RT.).
- INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), COUNTDOWN LED PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS BALTO ANNAP BLVD") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE). (STA 301+27, 27' LT.).
- INSTALL CONCRETE FOUNDATION WITH 5 FT. STEEL PEDESTAL POLE WITH MODIFIED BREAKAWAY BASE (STANDARD NO. MD 801.01-01), COUNTDOWN LED PEDESTRIAN SIGNAL HEAD, AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS NURSERY ROAD") (INSTALL 1-2 IN. SCHEDULE 80, 90 DEGREE PVC ELECTRICAL CONDUIT BEND IN POLE BASE). (STA 301+07, 45' LT.).
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, INSTALL LED COUNTDOWN PEDESTRIAN SIGNAL HEAD (POLE-MOUNTED), AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON, AND R10-3(1) SIGN (TO READ "PUSH BUTTON TO CROSS NURSERY ROAD").
- REMOVE EXISTING PEDESTRIAN SIGNAL HEADS, PUSHBUTTON, AND SIGN.
- REMOVE EXISTING PEDESTRIAN SIGNAL HEAD, PUSHBUTTON, AND SIGN.
- USE EXISTING BASE MOUNTED CABINET/CONTROLLER. INSTALL AUDIBLE/TACTILE PEDESTRIAN PUSHBUTTON BASE UNIT.
- INSTALL 2 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
- USE EXISTING CONDUIT.
- USE EXISTING STRAIN POLE.
- USE EXISTING SPAN WIRE.
- USE EXISTING HANDHOLE.
- REMOVE EXISTING PAVEMENT MARKINGS. INSTALL 12 IN. WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKINGS FOR CROSSWALK.
- REMOVE EXISTING PAVEMENT MARKINGS. INSTALL 24 IN. WHITE LEAD FREE THERMOPLASTIC PAVEMENT MARKINGS FOR STOP LINE.
- REMOVE EXISTING OVERHEAD SIGN.

GENERAL NOTES

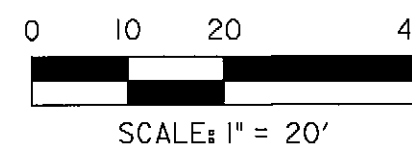
- ALL SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE TO MEET CLEARANCES AS SPECIFIED IN MD 816.01, MD 818.02, AND MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
- ALL UNDERGROUND AND OVERHEAD UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC ONLY AND MAY NOT BE COMPLETE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING MISS UTILITY PRIOR TO THE CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN UTILITIES AND THE TRAFFIC SIGNAL WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IMMEDIATELY SO THAT THE CONFLICT MAY BE RESOLVED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND SHALL PROPERLY LABEL EACH CABLE. ALL UNUSED SIGNAL CABLE SHALL BE PROPERLY REMOVED AND DISPOSED.
- LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MUTCD SECTIONS 4E.08 AND 4E.10 AND FIGURES 4E-3 AND 4E-4 AND THE NCHRP PUBLICATION "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE." IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- PUSHBUTTONS ARE TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18 INCHES FROM A 60-INCH BY 60-INCH LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2 PERCENT.
- THE 10-FOOT SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM THE FACE OF THE PUSHBUTTON TO THE FACE OF PUSHBUTTON, NOT FROM CENTER OF POLE TO CENTER OF POLE.
- PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
- THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
- NEW SIGNAL POLE FOUNDATIONS ARE TO BE INCORPORATED INTO THE CURB.
- ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
- ALL CROSSWALKS SHALL BE CENTERED TO THE PROPOSED SIDEWALK RAMPS.
- REFER TO DETAIL SHEET (SHEET NO. 3) FOR CURB RAMP DETAILS.
- REFER TO THE ROADWAY PLAN SHEET (SHEET NO. 4) FOR ALL SIGN RELOCATIONS RESULTING FROM SIDEWALK CONSTRUCTION.
- REMOVE AND DISPOSE OF ALL UNUSED CABLE.

GEOMETRIC LEGEND	
---	EXISTING
- - - -	PROPOSED
UTILITY LEGEND	
=====	STORM DRAIN
----	GAS MAIN
----	WATER MAIN
----	SEWER MAIN
----	ELECTRIC CABLES
----	AERIAL CABLES
----	TELEPHONE CABLES
----	FIBER-OPTIC

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BY: bshanover



SCALE: 1" = 20'

APPROVALS	
TEAM LEADER	ORIGINAL ON FILE
ASST. DIR. CHIEF	
DIVISION CHIEF	
OFFICE DIRECTOR	

REVISIONS	
1. UPGRADE SIGNAL WITH APS AND GPS	10/19/12 SHA NO. 208480753 TMS NO. 1381
2. INSTALL VIDEO DETECTION	09/07 TMS NO. 1381
3. REPLACE FAILED LOOP DETECTION	09/07 SHA NO. 208480753 AW020403

SHA STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION	
MD 648E (BALTIMORE ANNAPOLIS BOULEVARD) AT MD 168 (NURSERY ROAD) PUMPHREY, MARYLAND	
TRAFFIC SIGNALIZATION PLAN	
SCALE 1" = 20'	DATE MARCH 19, 1980 CONTRACT NO. AA-276-501-585
DESIGNED BY J.D.S.	COUNTY ANNE ARUNDEL
DRAWN BY R.A.P. E.J.S.	LOGMILE 02084807.53
CHECKED BY D.G.M.	T.I.M.S. NO. N/A
F.A.P. NO.	T.O.D. NO.
T.S. NO. 1529F	SG-01 OF SG-02
SHEET NO. 6 OF 7	

PLOTTED: Tuesday, October 16, 2012 AT 11:19 AM
FILE: I:\5212 - bdd\28 - ada_topa\design\engineering\plans\Submittal 8\MD 648 at Nursery\p8g-P001_T81529F.dgn